

**Evaluation Report
G# 979, A/N 6931
Arco #00601
712 Lewelling Blvd
San Leandro, CA 94579**

Project:

Tait and Associates, Inc. on behalf of Arco #00601 has submitted this application to increase the throughput limits and do modification at G979. The modification includes replacement of phase-I vapor recovery equipment with an EVR certified system, installation of new dispensers, and replacement of old product, vent and vapor lines with all new components. No other hardware modifications are being proposed at this time

System Configuration:

This station will be equipped with 4-10K gallon Underground tanks 3-for 87 and 1-for 91 Octane products. All tanks are manifolded. Two Point Phil-Tite Phase-I and balance phase-II, 4-Tokheim (Premier "C" Series 322C) dispensers with 8-triple product (Emco Wheaton A4005) nozzles. Currently this station has 16 single product nozzles. After modification they will have 8 triple product gasoline nozzles therefore the increase in nozzle count will be $8 \times 3 = 24 - 16 = 8$. The pipe slope towards the tanks is going to be 1/8" per foot.

Conditions:

This is an existing station without a throughput condition. According to the District's Risk Management Policy for operations that meet the requirement for Toxics Best Available Control Technology (TBACT) 15.3 million gallons/yr. throughput is acceptable for this station. This station will now be conditioned to 15.3 million gallons/yr. pursuant to condition ID #20410. A historic base line of 2.95 million gallons/yr has been established for this station under this application.

Schools:

The station is within 1000 feet of Chinese Christian School and Lewelling Christian School triggering the public notice requirements of the Water Bill. There are no other schools within ¼ mile of this station.

Public Notice:

Before this throughput increase can be approved, a 30-day public comment period will be held. Notice describing the project and announcing the public comment period will be mailed to the parents of students attending the above schools and people living within 1000 feet of the station. The cost of preparing and distributing this notice will be borne by the applicant.

VOC Emission Calculations:

Increase:
 $12.35 \text{ million gal/yr} \times 1.27 \text{ \#VOC/1000 gal} = 15,684 \text{ \#/yr}$
 $= \underline{\underline{42.96 \text{ \#/day}}}$

Total emissions:
 $15.3 \text{ million gal/yr} \times 1.27 \text{ \#VOC/1000 gal} = 19,431 \text{ \#/yr}$
 $= \underline{\underline{53.23 \text{ \#/day}}}$

New Source Review:

This station has the potential to emit more than 10# of VOC in a single day, triggering the BACT requirements of Regulation 2-2-301.

BACT for GDFs is considered the use of California Air Resources Board (CARB)-certified Phase I and Phase II vapor recovery equipment. State law prohibits the District from requiring vapor recovery equipment that is not- CARB certified.

Emissions from this station will remain less than 15 tpd. Per Regulation 2-2-302, offsets are not required.

Risk Management:

This project will increase emission of benzene a toxic air contaminant. The maximum increased risk from these emissions is as follow:

Residence	10 per million
Chinese Christian School	0.06 per million
Lewelling Christian School	0.05 per million

These increased risks are acceptable under the District Risk Management Policy provided the source utilizes TBACT.

TBACT:

The increased risk from this project exceeds 1 per million, triggering the use of TBACT equipment. TBACT for GDFs is considered the use of CARB-certified Phase I and Phase II vapor recovery equipment. State law prohibits the District from requiring vapor recovery equipment that is not-CARB certified.

Compliance:

This station is equipped with Two-point Phil-Tite Phase I (E O VR-101-A) and Balance Phase II (E O G-70-17-AD) vapor recovery equipment. Both systems are CARB certified, satisfying requirements for BACT and TBACT. This equipment also complies with Sections 8-7-301 and 302.

Recommendation:

Recommend that an A/C be granted to this station for this project upon completion of the public comment period and payment of any outstanding fees for the notification

By: Madhav Patil Air Quality Tech

Date: 03/11/03